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	Titolo	Precision positioning with commercial smartphones in urban environments / / Sara Paiva, editor
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	ISBN	3-030-71288-5
	Edizione	[1st ed. 2021.]
	Descrizione fisica	1 online resource (VII, 181 p. 62 illus., 37 illus. in color.)
	Collana	EAI/Springer innovations in communication and computing
	Disciplina	910.285
	Soggetti	Global Positioning System
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Introduction -- Recent and emergent technologies -- GPS, DGPS and GNSS -- Mobility and positioning -- Possible applications of precise positioning -- Smart cities and the role of positioning -- The importance for visually impaired people -- Android and iOS examples -- Case studies and applications -- Security issues and challenges -- Future trends in positioning techniques -- Conclusion.
	Sommario/riassunto	This book discusses recent technologies and case studies that aim to enhance positioning obtained with commercial smartphones in urban environments, overcoming difficulties with GPS. The authors provide insight into recent trends and innovation on technologies, solutions and approaches to overcome GPS issues in urban environments, due to the existence of a big number of buildings. Topics include security and legal aspects related to positioning systems, the usage of crowdsourcing approaches to enhance positioning, location-based services, proximity based-social networking, satellite navigation and Bluetooth low-energy based systems. The book provides important information for developers that intend to make use of precise positioning for the purpose of commercial applications as well as for research and innovation. Discusses technologies that enhance positioning obtained with commercial smartphones in urban environments; Presents innovations to overcome GPS issues in urban environments caused by dense cities; Includes applications of precise positioning, including their security issues and challenges.